

# WEST Search History

DATE: Sunday, March 16, 2003

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*

L1	particle or microparticle or particulate or microparticulate or sphere or microsphere or balloon or microballoon or nanoparticle or grain or crystal or seed or bead	2320137	L1
L2	L1 with glass	140707	L2
L3	L1 with size	463525	L3
L4	L2 with size	16729	L4
L5	L1 with (density or concentration)	172626	L5
L6	l2 and l3 and L5	13930	L6
L7	silica or silicon dioxide or silicate or SiO <sub>2</sub>	589154	L7
L8	L7 same (alumina or aluminum oxide or Al <sub>2</sub> O <sub>3</sub> )	140335	L8
L9	l2 same L8	7093	L9
L10	L7 with (alumina or aluminum oxide or Al <sub>2</sub> O <sub>3</sub> )	131412	L10
L11	L10 with glass	21294	L11
L12	l1 same L11	7043	L12
L13	l9 and (boron oxide or B <sub>2</sub> O <sub>3</sub> )	604	L13
L14	L13 and (sodium oxide or Na <sub>2</sub> O)	263	L14
L15	L14 and (potassium oxide or K <sub>2</sub> O)	202	L15
L16	L15 and (lithium oxide or Li <sub>2</sub> O)	122	L16
L17	L16 and (calcium oxide or CaO)	91	L17
L18	L17 and (magnesium oxide or MgO)	76	L18
L19	L18 and (barium oxide or BaO)	54	L19
L20	L19 and (strontium oxide or SrO)	39	L20
L21	L20 and l5	5	L21
L22	l6 and l9	1172	L22
L23	L22 and l13	38	L23
L24	L23 and l14	17	L24
L25	L24 and l15	12	L25
L26	l23 not L25	26	L26
L27	L23 not l24	21	L27

END OF SEARCH HISTORY

**WEST**

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**Search Results - Record(s) 1 through 21 of 21 returned.**☐ 1. Document ID: US 20030035642 A1

L27: Entry 1 of 21

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030035642

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030035642 A1

TITLE: Layer materials and planar optical devices

PUBLICATION-DATE: February 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Michael A.	Los Gatos	CA	US	

US-CL-CURRENT: 385/129; 385/14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 2. Document ID: US 20020040137 A1

L27: Entry 2 of 21

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040137

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040137 A1

TITLE: Process for producing epsilon-caprolactam and apparatus for the process

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Holderich, Wolfgang F.	Frankenthal		DE	
Dahlhoff, Gerd	Bergheim		DE	
Sbresny, Andre	Aachen		DE	
Ichihashi, Hiroshi	Otsu-shi		JP	

US-CL-CURRENT: 540/536

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 3. Document ID: US 6482945 B2

L27: Entry 3 of 21

File: USPT

Nov 19, 2002

US-PAT-NO: 6482945

DOCUMENT-IDENTIFIER: US 6482945 B2

TITLE: Process for producing epsilon-caprolactam and apparatus for the process

DATE-ISSUED: November 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holderich; Wolfgang F.	Frankenthal			DE
Dahlhoff; Gerd	Bergheim			DE
Sbresny; Andre	Aachen			DE
Ichihashi; Hiroshi	Otsu			JP

US-CL-CURRENT: 540/536

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

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☐ 4. Document ID: US 6355403 B1

L27: Entry 4 of 21

File: USPT

Mar 12, 2002

US-PAT-NO: 6355403

DOCUMENT-IDENTIFIER: US 6355403 B1

TITLE: Duplitized reflective members useful for album pages

DATE-ISSUED: March 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bourdelaïs; Robert P.	Pittsford	NY		
Camp; Alphonse D.	Rochester	NY		
Aylward; Peter T.	Hilton	NY		

US-CL-CURRENT: 430/394; 430/22, 430/403, 430/432, 430/496, 430/502, 430/510, 430/517, 430/524, 430/533, 430/536, 430/939 , 430/952

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

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☐ 5. Document ID: US 5958794 A

L27: Entry 5 of 21

File: USPT

Sep 28, 1999

US-PAT-NO: 5958794

DOCUMENT-IDENTIFIER: US 5958794 A

TITLE: Method of modifying an exposed surface of a semiconductor wafer

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bruxvoort; Wesley J.	Woodbury	MN		
Culler; Scott R.	Burnsville	MN		
Ho; Kwok-Lun	Woodbury	MN		
Kaisaki; David A.	St. Paul	MN		
Kessel; Carl R.	St. Paul	MN		
Klun; Thomas P.	Lakeland	MN		
Kranz; Heather K.	Blaine	MN		
Messner; Robert P.	St. Paul	MN		
Webb; Richard J.	Inver Grove Heights	MN		
Williams; Julia P.	St. Paul	MN		

US-CL-CURRENT: 438/692; 216/88, 451/539

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 5951295 A

L27: Entry 6 of 21

File: USPT

Sep 14, 1999

US-PAT-NO: 5951295

DOCUMENT-IDENTIFIER: US 5951295 A

TITLE: Ceramic fused fiber enhanced dental materials

DATE-ISSUED: September 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lyles; Mark B.	San Antonio	TX		
Ritsco; Ronald G.	San Antonio	TX		

US-CL-CURRENT: 433/228.1; 523/115, 523/116, 524/404, 524/441,  
524/492

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
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☐ 7. Document ID: US 5656815 A

L27: Entry 7 of 21

File: USPT

Aug 12, 1997

US-PAT-NO: 5656815

DOCUMENT-IDENTIFIER: US 5656815 A

TITLE: Thermoluminescence radiation dosimetry using transparent  
glass containing nanocrystalline phosphor

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Justus; Brian L.	Springfield	VA		
Huston; Alan L.	Springfield	VA		

US-CL-CURRENT: 250/337

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 8. Document ID: US 5652016 A

L27: Entry 8 of 21

File: USPT

Jul 29, 1997

US-PAT-NO: 5652016

DOCUMENT-IDENTIFIER: US 5652016 A

TITLE: Tetracalcium phosphate-based materials and processes for  
their preparation

DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imura; Akitoshi	Sakai			JP
Saito; Toru	Takatsuki			JP
Ikegami; Shiro	Ibaragi			JP

US-CL-CURRENT: 427/212; 427/2.26, 427/2.27, 427/2.29, 427/215,  
427/399

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

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☐ 9. Document ID: US 5621035 A

L27: Entry 9 of 21

File: USPT

Apr 15, 1997

US-PAT-NO: 5621035

DOCUMENT-IDENTIFIER: US 5621035 A

TITLE: Ceramic fused fiber enhanced dental materials

DATE-ISSUED: April 15, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lyles; Mark B.	San Antonio	TX		
Ritsco; Ronald G.	San Antonio	TX		

US-CL-CURRENT: 524/404; 433/226, 433/228.1, 523/115, 523/116,  
524/441, 524/492

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☐ 10. Document ID: US 5569490 A

L27: Entry 10 of 21

File: USPT

Oct 29, 1996

US-PAT-NO: 5569490

DOCUMENT-IDENTIFIER: US 5569490 A

TITLE: Tetracalcium phosphate-based materials and processes for  
their preparation

DATE-ISSUED: October 29, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imura; Akitoshi	Sakai			JP
Saito; Toru	Takatsuki			JP
Ikegami; Shiro	Ibaragi			JP

US-CL-CURRENT: 427/212; 264/125, 423/305, 423/308, 427/399

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☐ 11. Document ID: US 5536575 A

L27: Entry 11 of 21

File: USPT

Jul 16, 1996

US-PAT-NO: 5536575

DOCUMENT-IDENTIFIER: US 5536575 A

TITLE: Tetracalcium phosphate-based materials and processes for their preparation

DATE-ISSUED: July 16, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imura; Akitoshi	Sakai			JP
Saito; Toru	Takatsuki			JP
Ikegami; Shiro	Ibaragi			JP

US-CL-CURRENT: 428/403; 423/305, 423/308, 423/311, 423/314,  
428/701, 428/704

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 12. Document ID: US 5492957 A

L27: Entry 12 of 21

File: USPT

Feb 20, 1996

US-PAT-NO: 5492957

DOCUMENT-IDENTIFIER: US 5492957 A

TITLE: Face coat composition for casting mold and method for the preparation of casting mold having face coat layer

DATE-ISSUED: February 20, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishikawa; Koji	Chiba			JP
Toda; Hiroaki	Okayama			JP
Suzuki; Ken-ichiro	Chiba			JP
Kimura; Yuji	Fukui			JP
Yoshida; Norifumi	Fukui			JP

US-CL-CURRENT: 524/430; 524/431, 524/432, 524/433, 524/434,  
524/435, 524/436, 524/494

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 13. Document ID: US 5332432 A

L27: Entry 13 of 21

File: USPT

Jul 26, 1994

US-PAT-NO: 5332432

DOCUMENT-IDENTIFIER: US 5332432 A

TITLE: Inorganic adhesive composition

DATE-ISSUED: July 26, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okubi; Ken-ichi	Funabashi			JP
Kitajima; Akira	Funabashi			JP
Sato; Hisayuki	Funabashi			JP
Ema; Kiyomi	Funabashi			JP

US-CL-CURRENT: 106/287.13; 106/287.16, 106/287.34, 106/626,  
106/631, 106/635, 106/637

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 14. Document ID: US 5238518 A

L27: Entry 14 of 21

File: USPT

Aug 24, 1993

US-PAT-NO: 5238518

DOCUMENT-IDENTIFIER: US 5238518 A

TITLE: Bonding method employing an inorganic adhesive composition

DATE-ISSUED: August 24, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okubi; Ken-ichi	Funabashi			JP
Kitajima; Akita	Funabashi			JP
Sato; Hisayuki	Funabashi			JP
Ema; Kiyomi	Funabashi			JP

US-CL-CURRENT: 156/326; 106/287.16, 106/287.34, 156/325, 501/12,  
501/133, 501/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 15. Document ID: US 5053146 A

L27: Entry 15 of 21

File: USPT

Oct 1, 1991

US-PAT-NO: 5053146

DOCUMENT-IDENTIFIER: US 5053146 A

TITLE: Method for extinguishment of metal fire and fire  
extinguishing agent therefor

DATE-ISSUED: October 1, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamaguchi; Hisayoshi	Tokyo			JP

US-CL-CURRENT: 252/2; 169/44, 169/46, 252/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 16. Document ID: US 4871693 A

L27: Entry 16 of 21

File: USPT

Oct 3, 1989

US-PAT-NO: 4871693

DOCUMENT-IDENTIFIER: US 4871693 A

TITLE: Porous cordierite ceramics

DATE-ISSUED: October 3, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inoue; Senya	Saitama			JP
Ono; Akira	Tokyo			JP
Kobayashi; Mikio	Saitama			JP
Yokoo; Hiroshi	Tokyo			JP

US-CL-CURRENT: 501/9; 501/118, 501/119, 501/12, 501/20, 501/39,  
502/527.16, 502/527.24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 17. Document ID: US 4698317 A

L27: Entry 17 of 21

File: USPT

Oct 6, 1987

US-PAT-NO: 4698317

DOCUMENT-IDENTIFIER: US 4698317 A

TITLE: Porous cordierite ceramics, a process for producing same and use of the porous cordierite ceramics

DATE-ISSUED: October 6, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inoue; Senya	Saitama			JP
Ono; Akira	Tokyo			JP
Kobayashi; Mikio	Saitama			JP
Yokoo; Hiroshi	Tokyo			JP

US-CL-CURRENT: 501/9; 501/119, 501/33, 501/39, 501/84, 501/85, 502/527.19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 18. Document ID: US 4248752 A

L27: Entry 18 of 21

File: USPT

Feb 3, 1981

US-PAT-NO: 4248752

DOCUMENT-IDENTIFIER: US 4248752 A

TITLE: Refractory moldable composition

DATE-ISSUED: February 3, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Myles; Thomas A.	Prospect	KY		

US-CL-CURRENT: 523/139; 264/269, 264/30, 264/DIG.19, 428/698, 501/127, 501/133, 501/81, 501/88, 501/95.1, 524/404, 524/405, 524/430, 524/443, 524/444

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 19. Document ID: US 4174331 A

L27: Entry 19 of 21

File: USPT

Nov 13, 1979

US-PAT-NO: 4174331

DOCUMENT-IDENTIFIER: US 4174331 A

TITLE: Refractory moldable composition containing ceramic fiber and colloidal silica

DATE-ISSUED: November 13, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Myles; Thomas A.	Tonawanda	NY		

US-CL-CURRENT: 524/388; 106/38.23, 106/38.51, 264/269, 264/30,  
361/736, 361/790, 501/133, 501/95.1, 524/34, 524/377, 524/379,  
524/389, 524/404, 524/405, 524/430, 524/443, 524/444, 524/450,  
524/514, 524/555, 524/612

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
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☐ 20. Document ID: US 4130538 A

L27: Entry 20 of 21

File: USPT

Dec 19, 1978

US-PAT-NO: 4130538

DOCUMENT-IDENTIFIER: US 4130538 A

TITLE: Preparation of smoke and flame retardant resinous compositions

DATE-ISSUED: December 19, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shutt; Thomas C.	St. Louis	MO		

US-CL-CURRENT: 523/129; 523/513, 523/514, 523/527, 524/405

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
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☐ 21. Document ID: EP 1156021 A1 JP 2002037645 A US 20010043996 A1

L27: Entry 21 of 21

File: DWPI

Nov 21, 2001

DERWENT-ACC-NO: 2002-141514

DERWENT-WEEK: 200226

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TITLE: Producing hollow aluminosilicate glass microspheres e.g. for electrical appliances, comprises wet pulverizing glass formulation

material to obtain slurry, forming into droplets, heating to  
vitrify and convert to hollow glass microspheres

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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